Packet Tracer - Basic Device Configuration

# Topology

You will receive one of three possible topologies.

# Addressing Table

|  |  |  |  |
| --- | --- | --- | --- |
| Device | Interface | IP Address | Default Gateway |
| Floor14 | G0/0 | 172.14.5.1/24 | N/A |
|  |  | 2001:DB8:CAFE:1::1/64 |  |
|  |  | FE80::1 |  |
|  | G0/1 | 172.14.10.1/24 | N/A |
|  |  | 2001:DB8:CAFE:2::1/64 |  |
|  |  | FE80::2 |  |
| Room-145 | VLAN 1 | 172.14.5.35/24 | 172.14.5.1 |
| Room-146 | VLAN 1 | 172.14.10.35/24 | 172.14.10.1 |
| Manager-A | NIC | 172.14.5.50/24 | 172.14.5.1 |
|  |  | 2001:DB8:CAFE:1::50/64 | FE80::1 |
| Reception-A | NIC | 172.14.5.60/24 | 172.14.5.1 |
|  |  | 2001:DB8:CAFE:1::60/64 | FE80::1 |
| Manager-B | NIC | 172.14.10.50/24 | 172.14.10.1 |
|  |  | 2001:DB8:CAFE:2::50/64 | FE80::2 |
| Reception-B | NIC | 172.14.10.60/24 | 172.14.10.1 |
|  |  | 2001:DB8:CAFE:2::60/64 | FE80::2 |

# Objectives

* Complete the network documentation.
* Perform basic device configurations on a router and a switch.
* Verify connectivity and troubleshoot any issues.

# Scenario

Your network manager is impressed with your performance in your job as a LAN technician. She would like you to demonstrate your ability to configure a router that connects two LANs. Your tasks include configuring basic settings on a router and a switch using the Cisco IOS. You will also configure IPv6 addresses on network devices and hosts. You will then verify the configurations by testing end-to-end connectivity. You goal is to establish connectivity between all devices.

**Note:** The VLAN1 interface on  will not be reachable over IPv6.

In this activity you will configure the  router,  switch, and the **PC hosts**.

**Note:** Packet Tracer will not score some configured values, however these values are required to accomplish full connectivity in the network.

# Requirements

* Provide the missing information in the Addressing Table.

**Note**: Some of the information is provided in the Packet Tracer instructions for your topology.

* Name the router and the second switch . You will not be able to access the switch.
* Use **cisco** as the user EXEC password for all lines.
* Use **class** as the encrypted privileged EXEC password.
* Encrypt all plaintext passwords.
* Configure an appropriate banner.
* Configure IPv4 and IPv6 addressing for the  switch according to the Addressing Table.
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* The hosts are partially configured. Complete the IPv4 addressing, and fully configure the IPv6 addresses according to the Addressing Table.
* Document interfaces with descriptions, including the  VLAN 1 interface.
* Save your configurations.
* Verify connectivity between all devices. All devices should be able to ping all other devices with IPv4 and IPv6.
* Troubleshoot and document any issues.
* Implement the solutions necessary to enable and verify full end-to-end connectivity.

**Note**: Click **Check Results** button to see your progress. Click the **Reset Activity** button to generate a new set of requirements.

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